

## Recovery Plan Action Status

**Plan Name:** Eureka Valley Dunes Recovery Plan

**Plan Status:** Final

**Plan Date:** 13-Dec-82

**Lead Agency:** USFWS

**Lead Office:** Ventura Fish And Wildlife Office

(805)  
644-1766 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	111	Enforce and maintain closure	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Law Enforcement Division, California Department of Fish and Game	Other: Law Enforcement	Internal Field Assistance	DVNP continues to monitor compliance through patrols
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	112	Confine vehicles to designated roads	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Other: Law Enforcement	Internal Field Assistance	DVNP continues to monitor compliance through patrols
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	113	Prohibit camping on dune slopes and sandy borders	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Law Enforcement Division, California Department of Fish and Game	Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Field Assistance	DVNP has established policies to prohibit this, and they continue to monitor compliance.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	114	Insure that recreational use of Eureka Dunes occurs in a manner compatible with the Recovery Plan Objectives	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Other: Law Enforcement	Internal Field Assistance	DVNP continues to monitor compliance through patrols
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	11411	Establish main camping area	Complete	Prior to FY 1995	FY 2005	U.S. Bureau of Land Management	Management: General	Internal Field Assistance	DVNP has moved the main camping facility at Eureka Dunes to a distance that is further away.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	11412	Provide an overflow or group campground	Not Started			U.S. Bureau of Land Management	Management: General	Internal Field Assistance	

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Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	11413	Provide for a primitive campground	Complete	Prior to FY 1995	FY 2005	U.S. Bureau of Land Management	Management: General	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	1142	Establish and maintain picnic / day-use area near dunes	Complete	Prior to FY 1995	FY 2005	U.S. Bureau of Land Management	Management: General	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	1143	Provide interpretive signs and displays	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General	Internal Field Assistance	The USFWS provided money to the DVNP through the Showing Success Program to install additional interpretive signs, wilderness markers, and vehicle barriers. In 2010, an interpretive sign was installed at Eureka Dunes.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	115	Adjust restrictions and management policies to avoid unforeseen problems and impacts	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: General, Other: Regulations	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	121	Maintain and enforce closure of all roads and trails leading to Marble Canyon Dunes, Saline Sand Spur and "unexplored site"	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Other: Law Enforcement	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	122	Adjust restrictions as necessary.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General, Management: Planning, Other: Law Enforcement, Other: Regulations	Internal Field Assistance	

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Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	131	Confine vehicles to designated roads	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Other, Other: Law Enforcement	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	132	Prevent excessive erosion or vegetation disturbance	Unknown			U.S. Bureau of Land Management	Management: General	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	133	Protect dune's watershed and hydrology	Ongoing Not Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General, Management: Planning	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	134	Adjust restrictions as necessary	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General, Management: Planning, Other: Law Enforcement, Other: Regulations	Internal Field Assistance	Duration listed as "Indeterminate"
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	141	Provide adequate ground patrols	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Law Enforcement Division, California Department of Fish and Game	Management: General, Other: Law Enforcement	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	1411	Determine level of ground patrol needed	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General	Internal Field Assistance	In progress
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	1412	Provide extra patrols during peak use times	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General, Other: Law Enforcement	Internal Field Assistance	Duration listed as "Indeterminate"

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Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	142	Provide for air patrols	Obsolete			U.S. Bureau of Land Management	Management: General, Other: Law Enforcement	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	1421	Determine frequency needed	Obsolete			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Law Enforcement Division, California Department of Fish and Game	Management: General, Management: Planning	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	1422	Determine patrol personnel	Obsolete			U.S. Bureau of Land Management	Management: General	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	143	Provide signs describing allowed uses, restrictions, etc.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General	Internal Field Assistance	The USFWS is providing money to the DVNP through the Showing Success Program to install additional interpretive signs, wilderness markers, and vehicle barriers in 2007.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	144	Post sign at Eureka Dunes turn-off	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General	Internal Field Assistance	The USFWS is providing money to the DVNP through the Showing Success Program to install additional interpretive signs, wilderness markers, and vehicle barriers in 2007.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	145	Replace vandalized signs	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General	Internal Field Assistance	Duration listed as "Indeterminate"

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Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	1	15	Develop and implement habitat management plan	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General, Management: Planning	Internal Field Assistance	In Progress.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	2111	Monitor the Eureka Dunes each quarter	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Research: Habitat Status	Internal Field Assistance	DVNP is currently performing monitoring of all populations of Eureka Dunes plants including some resurveys of permanent plots established in the 1980s.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	21112	Recommend monitoring personnel	Obsolete			U.S. Bureau of Land Management	Management: General	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	2112	Monitor other sites	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Population Monitoring, Research: Habitat Status, Research: Other Information, Research: Population Assessment, Research: Population Surveys	Internal Field Assistance	DVNP is currently performing monitoring of all populations of Eureka Dunes plants including some resurveys of permanent plots established in the 1980s.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	2	21121	Determine monitoring techniques	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: General, Research: Other Information	Internal Field Assistance	DVNP is currently refining its monitoring effort for these plants. These monitoring plans will be put into the post delisting monitoring plan for these species.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	2121	Examine evening-primrose pollinators and their habitat needs	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: General, Research: Other Information	Contract, Internal Field Assistance	Cost estimated at 2.5k/yr.

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Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	2122	Determine watershed boundaries for all dune systems	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: General	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	2123	Study the hydrology of the various dunes	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Geological Survey	Research: Habitat Status, Research: Other Information	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	21241	Examine seed production, germination in the field, and seedling mortality	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Other Information	Contract, Internal Field Assistance	Cost estimated at 1.5k/yr.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	21242	Study survivorship of adult plants	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Demographic Studies, Research: Other Information, Research: Population Surveys	Contract, Internal Field Assistance	Cost estimated at 1.0k/yr.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	21251	Inventory animal components	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Other Information	Contract, Internal Field Assistance	Cost estimated at 2.0k/yr.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	21252	Study plant-animal actions	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Other Information	Contract, Internal Field Assistance	Cost estimated at 5.0k/yr.

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Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	213	Apply results of research to management of Eureka Dunes' ecosystem	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: General, Management: Planning	Internal Field Assistance	
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	221	Provide interpretive markers	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: General	Internal Field Assistance	Cost estimates for 2 years is 2.5k/yr.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	222	Encourage scientific research	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Other	Internal Field Assistance	In 2010, USGS began working collaboratively with Elaine Chow (UC Davis PhD Candidate) to investigate potential competition between Russian thistle and Oenothera californica subsp. eurekaensis. Their research will expand to include dune hydrology and the effects of predation/herbivory.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	223	Provide supplemental folders / booklets	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Other	Internal Field Assistance	Cost estimated at .5k/yr.
Eureka Dune grass (Swallenia alexandrae), Eureka Valley evening-primrose (Oenothera avita ssp. eurekaensis)	3	224	Provide an interpretive program at the Dunes.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Other	Internal Field Assistance	Cost estimated at 3.0k/yr.